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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,289	07/15/2005	Yuichi Setsuhara	12480-000134/US	7275
	7590 12/10/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. BOX 8910)	VU, DAVID HUNG		
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2821	
			MAIL DATE	DELIVERY MODE
			12/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/542,289	SETSUHARA ET AL.
Office Action Summary	Examiner	Art Unit
	David Hung Vu	2821
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be od will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 28 This action is FINAL . 2b) ☐ This action is application is in condition for allow closed in accordance with the practice under the condition is in condition.	his action is non-final. vance except for formal matters, p	
Disposition of Claims		
4) ☐ Claim(s) 1-10,15 and 22-35 is/are pending in 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7,15,28-31, and 34 is/are rejected 7) ☐ Claim(s) 8-10,22-27,32,33 and 35 is/are objust of the specification is objected to by the Exami	rawn from consideration. d. ected to. d/or election requirement.	
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is a	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a light 	ents have been received. ents have been received in Applicationity documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) ☐ Interview Summa Paper No(s)/Mail 5) ☐ Notice of Informa 6) ☑ Other: <u>See Conti</u>	Date Il Patent Application

Continuation of Attachment(s) 6). Other: Eglish translation of JP-236294.

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DETAILED ACTION

Specification

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,6,28-31, and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Byun et al (hereinafter Byun), US Pub No 2002/0007794.

Byun essentially discloses the claimed invention including two or more loads comprising 4b-4d,105 which are inductive or capacitive, plasma chamber 11, the high frequency power supplying device comprising: high frequency power source 2b-2d for supplying power to the loads, the high frequency power source being provided in proximity to the load, see for example, figures 3-6B, paragraphs [0019]-[0031], [0048]-[0055].

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-7,15, 28-31, and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Youzou, Japan Pat No 08-236294 in view of Holland et al (hereinafter Holland), US Pat No 6,893,533.

Youzou essentially discloses the claimed invention including two or more loads L which are inductive, the high frequency power supplying device comprising: high frequency power source 1 for supplying power to the loads, the high frequency power source being provided in proximity to the load, see whole document. Youzou does not explicitly disclose a plurality of power sources. Holland disclose a plurality of power sources 175,145,155 for a plasma chamber (figures 1-2,24). It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have employed a plurality of power sources; thus, more power would have been provided to the loads.

Regarding claim 2, figure 2 does show amplifiers 6,8,10.

Regarding claims 3-7, frequency/phase modulation and power control and measuring section employing in power device is well known in the art. Thus, one of

ordinary skill in the art would have known how to have employed frequency, phase, and power control and measuring section so as to achieve maximum power transferring.

Regarding claim 15, sensor also is well known in the art. One of ordinary skill in the art would have known how to have employed a sensor; thus, inductive magnetic field would have been measured.

Regarding claim 34, antenna is very well known for use as load in plasma apparatus. Thus, employing such antenna would have been considered obvious to one of ordinary skill in the art for the purpose of plasma regulating.

6. Claims 2-7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byun.

Buyn as discussed from the above, essentially discloses the claimed invention but fails to explicitly disclose high frequency power amplifier. However, amplifier is very well known in the art. It would have been obvious to one having ordinary skill in the art at the time of applicant's claimed invention was made to have employed an amplifier; thus, signal amplifying would have been realized.

Regarding claims 3-7, frequency/phase modulation and power control and measuring section employing in power device is well known in the art. Thus, one of ordinary skill in the art would have known how to have employed frequency, phase, and power control and measuring section so as to achieve maximum power transferring.

Regarding claim 15, sensor also is well known in the art. One of ordinary skill in the art would have known how to have employed a sensor; thus inductive magnetic field would have been measured.

Allowable Subject Matter

7. Claims 8-10,22-27, 32-33, and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Comments

Applicant's argued that reference character "L" only reference an inductance of wiring line from matching box 11,13,15 to electrode 5 and L is not a load. The Examiner respectfully disagrees. Claim must be interpreted reasonably and broadly. A load is just something for power applied to; thus, clearly inductance L, electrode 5 or terminals 12,14,16 can be qualified as a load.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Hung Vu whose telephone number is (571) 272-1831. The examiner can normally be reached on M-F 9:00am-5:30pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David Hung Vu/ Primary Examiner Art Unit 2821

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